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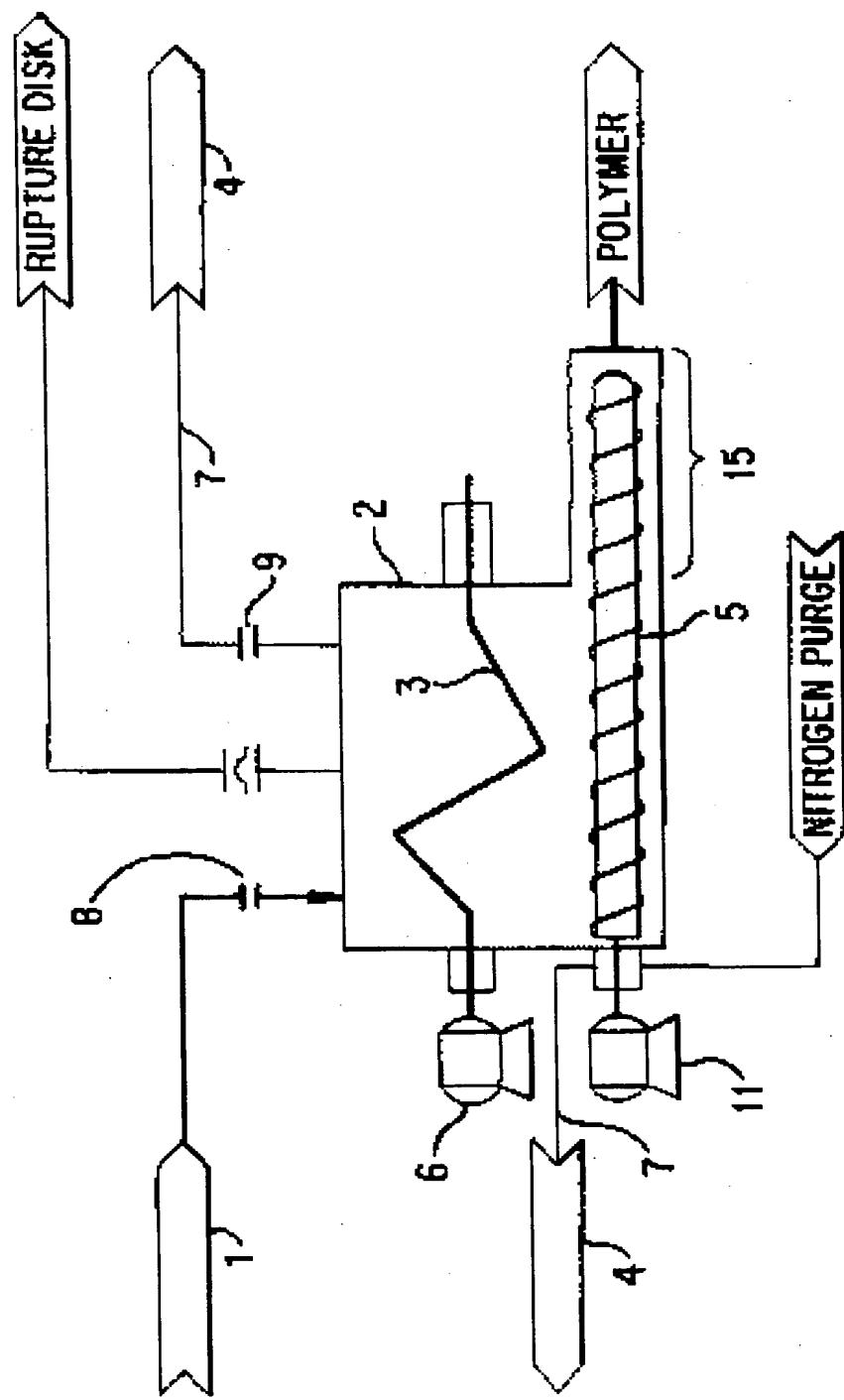
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification 6 :</b> <b>C08F 6/26, 6/28, G01F 11/28</b>		<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 97/38025</b> <b>(43) International Publication Date:</b> <b>16 October 1997 (16.10.97)</b>
<b>(21) International Application Number:</b> <b>PCT/US97/06966</b>		<b>(81) Designated States:</b> AU, CA, CN, JP, KR, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
<b>(22) International Filing Date:</b> <b>1 April 1997 (01.04.97)</b>			
<b>(30) Priority Data:</b> 08/630,800 10 April 1996 (10.04.96) US		<b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
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**(54) Title:** METHOD AND APPARATUS FOR PRODUCT RECOVERY OF POLYOLEFINS

**(57) Abstract**

A method and apparatus for product recovery of polyolefins, particularly high molecular weight amorphous poly alphaolefins, wherein the use of water during the method is significantly decreased and wherein the intermediate stage of storing and drying the chunk form of the polyolefin is eliminated. Polyolefins produced in a reactor are heated and mixed by sigma blades in a kneader-extruder to remove any unreacted monomer(s). The polyolefin material in a liquid form is then transferred directly to an extruder to further remove any unreacted monomer(s) and catalyst(s). The invention further includes a method of measuring the inventory in a vessel using a gas of known quantity and known thermodynamic properties.



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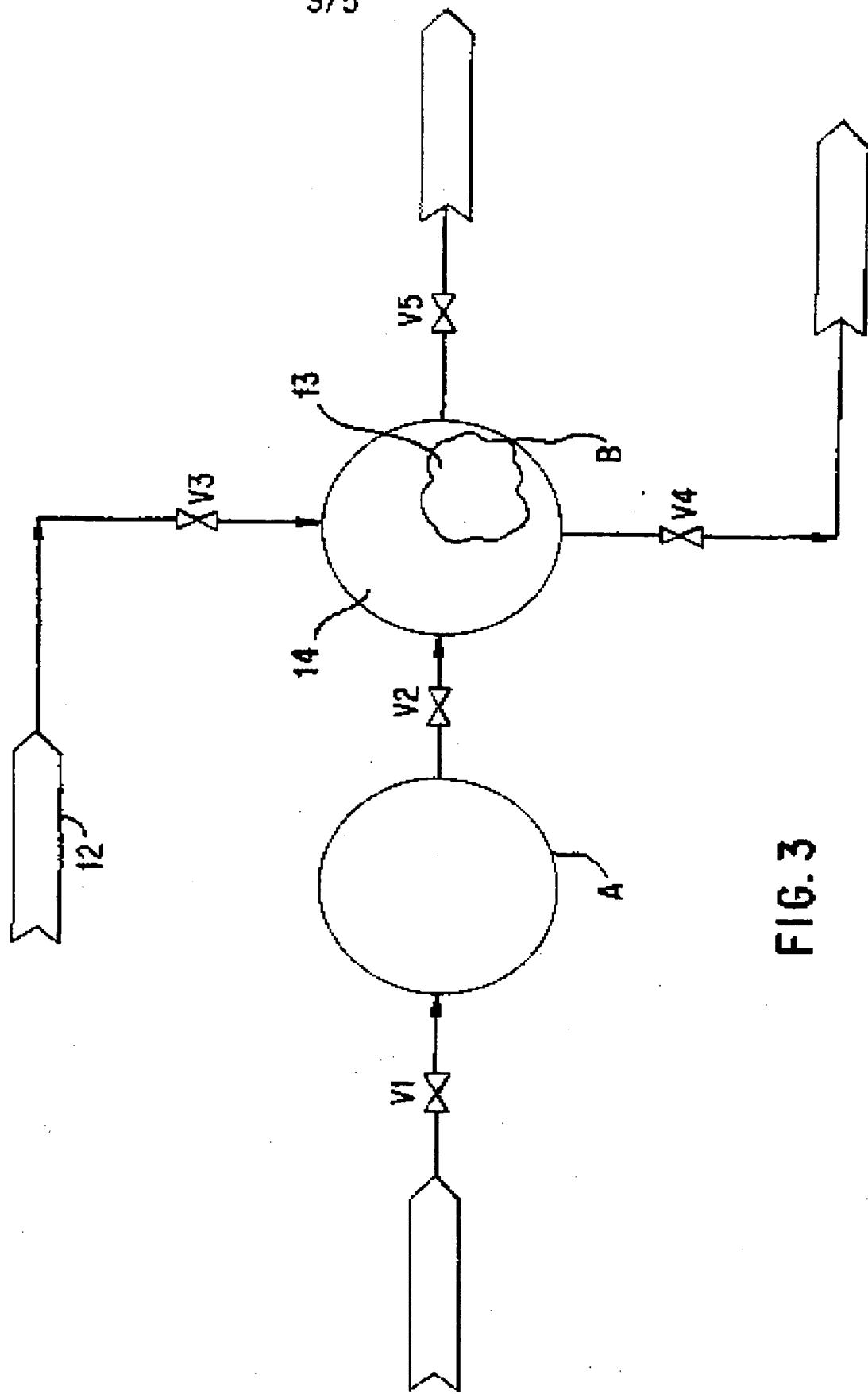


FIG. 3

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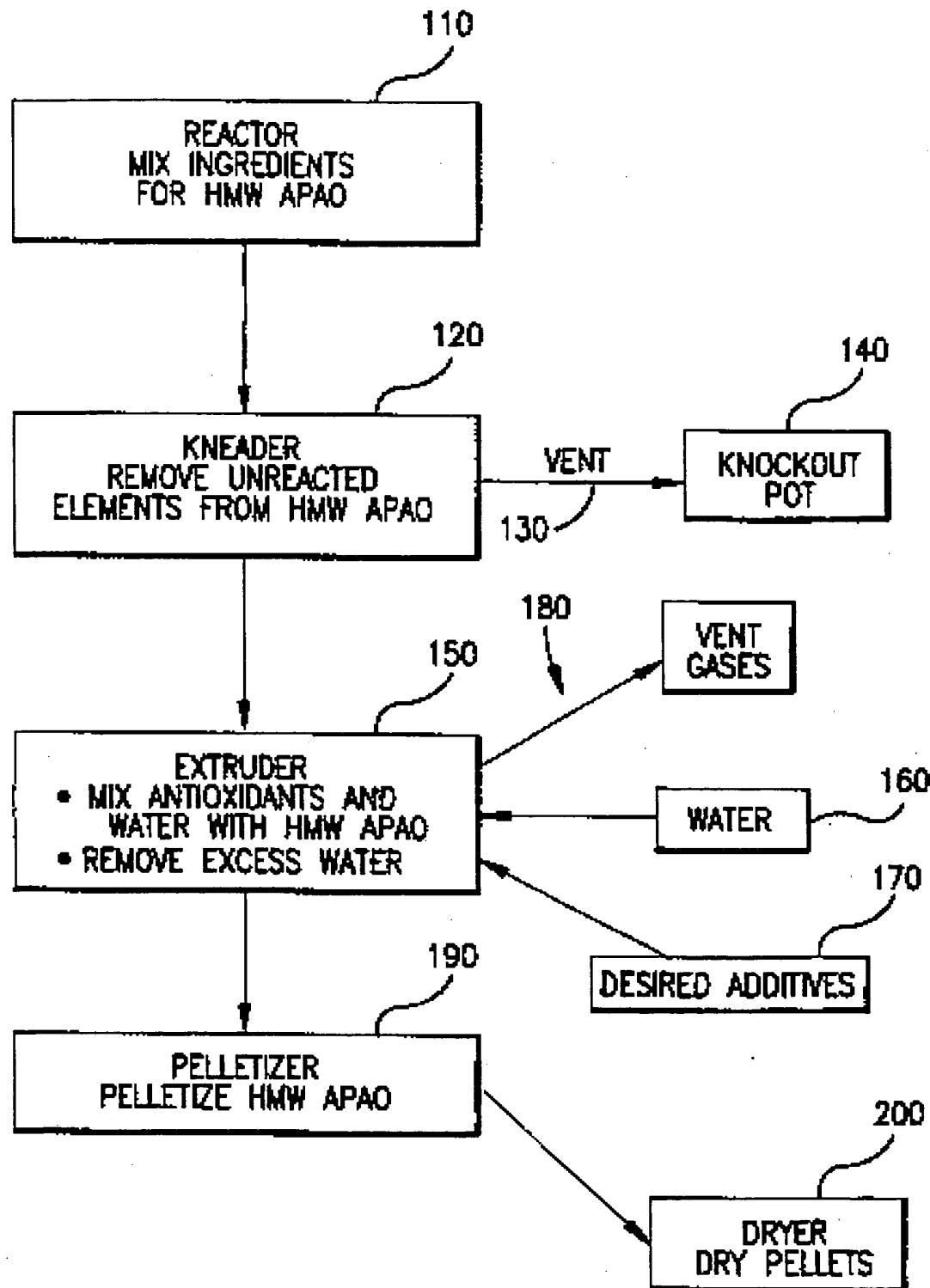


FIG.5

cited in the European Search  
Report of EP 00118159  
Your Ref.: H771-601



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

(11) Veröffentlichungsnummer:  
(11) Publication number:  
(11) Numéro de publication:

0 892 817

Internationale Anmeldung veröffentlicht durch die  
Weltorganisation für geistiges Eigentum unter der Nummer:  
**WO 97/38025** (art.158 des EPÜ).

International application published by the World  
Intellectual Property Organisation under number:

**WO 97/38025** (art.158 of the EPC).

Demande internationale publiée par l'Organisation  
Mondiale de la Propriété sous le numéro:

**WO 97/38025** (art.158 de la CBE).